

**Audrain County
Missouri
Natural Hazard Mitigation Plan
Five Year Update**

Section 4

**Audrain County, Missouri
Natural Hazard Mitigation Plan
Five Year Update**

Section 4

Mitigation	1
5 year Review, Update and Revision Process	1
Planning Process	2
Definition of Mitigation	2
Mission Statement	3
Multi-Hazard Goals, Objectives, Action Items and Strategies	3
Mitigation Plan Goals / Objectives	4
Organization of Mitigation Action Items	5
Hazard Mitigation Committee Members	6
Economic Analysis	8
Re-evaluation and Priority of 2006 Actions Items	8
Five Year Action Plan Matrix	9
Significant Mitigation Progress Since 2006	9
Priority of Action Items	9
STAPLEE –Prioritization of Mitigation Actions	12
Five Year Matrix Mitigation Action Summary Sheets	24

Mitigation

5 Year Review, Update and Revision Process

All Hazard Mitigation Plans are required to be revised every five years after initial approval by FEMA. The first Audrain County Multi-Jurisdiction Natural Hazard Mitigation Plan was finalized in April 2006. Audrain County and the cities of Mexico, Vandalia, Laddonia, Martinsburg, Farber, Benton City, Mexico 59 School District and Van-Far R-I School District, and Community R-VI School District were contacted to form Hazard Mitigation Committees.

Three committee meetings were held with each jurisdiction to review and update the 2006 plan. These meetings were held in April through December, 2011 and November 2013 through January 2014. A final meeting was held in January 2014 to discuss the plan maintenance and implementation and a review of the entire plan.

At the **initial meeting**, the committee reviewed and discussed the applicability of each section in the original Hazard Mitigation Plan and opted to update all sections of the plan and re-organize and simplify the plan.

Section 1 will be updated with new dates, new Hazard Mitigation Committee Members, and the process to update and review the original plan for this Five Year Update. Also the committees completely revamped the Goals and Objectives to be met by this plan.

Section 2 will be updated with the county profile as needed along with storm history updated for the last five years.

Section 3 will be updated to include the hazards of Levee Failure, and Sinkholes. The original Hazard Profiles Worksheets will be reviewed and updated, new Hazard Profile Worksheets will be created for the three new hazards considered. Also the repetitive losses were updated, and Vulnerability Worksheets will be updated.

Section 4 contains the Mitigation Action Items that the original Hazard Mitigation Committee developed for the County; these action items will be reviewed in detail and revised and updated as needed.

Section 5 will be updated with a signed Resolution from the County, each of the cities, and the three school districts.

Section 6 will be updated with new storm history from the National Weather Service.

At the **first meeting** the committee members were given a questionnaire and map and asked to provide updated information on critical response capabilities and assets within their communities for the next meeting.

At the **second committee meeting** the committee reviewed the Introduction, Hazard Risk and Assessment, and Profile sections. Utilizing the committee's information and suggestions, these portions of the plan were updated. The hazards of Sinkholes, and Levee Failure were added to the hazards discussion in this revision and this section was updated with historical data as well as the latest storm and hazard records. The Profile section was updated the most recent U.S. Census data. The committee also reviewed and updated the information on all capabilities and vulnerabilities.

The **third meeting and final meeting** was held to discuss the mitigation action items developed in the 2006 plan and if they were completed, needed revision or were to be deleted, and any new action items that the committee felt were needed. The result of those meetings is summarized in the 5 Year Mitigation Action Matrix. The committee was focused on plan maintenance and implementation and review of the entire plan. Annual assessments will be conducted by the County's Emergency Management Director and will be open to the public. Press releases in local newspapers will encourage

public participation in the assessment process. Plan copies will be publicly accessible in each local jurisdiction for review and comment by county citizens.

When the drafts of the final plan was submitted to SEMA (January 2014 and FEMA March 2014) for review the draft of the plan was posted on the website www.talleyconsultants.com and each committee was notified by phone and/or additional comments, corrections or additions were solicited.

The 2006 Action Items and the Five Year Update revisions are also analyzed using **STAPLEE** (action items that were **S**ocially acceptable, **T**echnically feasible, **A**dministratively executable by local communities, **P**olitically acceptable, **L**egally implemented by county, **E**conomically feasible and **E**nvironmentally sound (**STAPLEE**)). A summary of the **STAPLEE** guidelines for each action item can be found at the end of this section just before the 5 Year Mitigation Action Matrix. The 2006 action items are listed, and the **Five Year Update revisions and new action items are in bold print.**

Planning Process

Meetings with the Hazard Mitigation Committees served as the method to obtain input and identify priorities in developing goals for reducing risk and preventing loss from natural hazards in Audrain County. Articles in the local papers informed the public that hazard mitigation planning was occurring in their communities and they were invited to let their concerns be known. The Hazard Mitigation Committees met to determine action items that would address each of the plans goals, determine which organizations or groups within the county would be responsible for the action, an estimated timeline for the action, and to prioritize the action items.

In accordance with Missouri's "sunshine law" (RSMo 610.010, 610.020, 610.023, and 610.024), the public was notified each time the Hazard Mitigation Committees met and the plan, or sections of the plan were presented for review. Meeting dates and locations were also posted on www.talleyconsultants.com Input from the general public was solicited through media outlets and various reminders at public gatherings. Prior to the first meeting with each jurisdiction, an e-mail and an attachment describing the process was sent to commissioner, mayor, chairman of the board or college president. A request was made in that e-mail that a Hazard Mitigation Committee be set up for that jurisdiction, along with a committee chairman who would **send out notices to stakeholders and adjacent communities of all upcoming Hazard Mitigation meetings.** A copy of the e-mail and attachment, "The Process", can be found in Section 6

The planning committee was composed of members drawn from local entities, city and county representatives as well as citizens from each jurisdiction. Representatives worked to provide information about their jurisdictions through worksheets and meeting attendance which was utilized in the plan update. Input from the general public was also solicited prior to each meeting by the committee chairperson. Every effort was made by the Hazard Mitigation committees to include more individuals in the Five Year review and updating process. Meeting sign-in sheets can be found in Section 6.

Definition of Mitigation

Mitigation is defined as "...sustained (long-termed) action that reduces or eliminates long-term risk to people and property from natural hazards and their effects." It describes the ongoing effort at the federal, state, local and individual levels to lessen the impact of disasters upon our families, homes, communities and economy. (HMP Handbook p.15)

Mission Statement

The mission of the Audrain County Natural Hazards Mitigation Plan is to promote sound public policy designed to protect citizens, critical facilities, infrastructure, private property, and the environment from natural hazards. This can be achieved by increasing public awareness, documenting the resources for risk reduction and loss-prevention, and identifying activities to guide the county towards building a safer, more sustainable community.

Multi-Hazard Mission, Goals, Objectives, Action Items and Strategies

This section describes the framework that focuses the plan on developing successful mitigation strategies. The framework is made up of four parts: the **Mission, Goals, Objectives and Action Items and Strategies**.

Mission

The mission of the Audrain County Natural Hazards Mitigation Plan is to promote sound public policy designed to protect citizens, critical facilities, infrastructure, private property, and the environment from natural hazards. This plan will work in conjunction with plans in place listed at the end of the community profiles.

Goals

The plan goals describe the overall direction that Audrain County agencies, organizations, and citizens can take to minimize the impacts of natural hazards. The goals are stepping-stones between the broad direction of the mission statement and the specific recommendations that are outlined in the action items.

Objectives

The plan objectives are significant results that contribute to the achievement of the plan goals. The objectives will be fulfilled by a combination action items and strategies that will be completed within a specific time frame.

Action Items and Strategies

The action items are a listing of activities in which county agencies and citizens can be engaged to reduce risk. Each action item includes an estimate of the timeline and strategies for implementation. When developing mitigation strategy, the planning committee followed several guidelines for selection of action items. They looked for action items that were **S**ocially acceptable, **T**echnically feasible, **A**ministratively executable by local communities, **P**olitically acceptable, **L**egally implemented by county, **E**conomically feasible and **E**nvironmentally sound (STAPLEE). The planning committee eliminated no action items after the STAPLEE guidelines were followed. A summary of the STAPLEE guidelines for each action item can be found at the end of this section.

Mitigation Plan Goals/ Objectives

Goal 1 Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

Objective 1 Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.

Objective 2 Publicize appropriate mitigation measures for future natural hazards.

Objective 3 Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.

Goal 2 Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

Objective 1 Build and support local partnerships to lessen the effects of natural hazards.

Objective 2 Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.

Objective 3 Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.

Goal 3. Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

Objective 1 Incorporate mitigation procedures and planning into the community.

Objective 2 Encourage private involvement in mitigation activities.

Objective 3 Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

Organization of the Mitigation Action Items

The mitigation plan identifies action items developed through data collection and research. Action items were determined that pertained to all the natural hazards that face Audrain County. To help ensure active implementation, each action item includes information on the timeline and coordinating organizations. Upon implementation, the coordinating organizations may look to partner organizations for resources and technical assistance.

- **Coordinating Organization.** The coordinating organization is the organization that is willing and able to organize resources, find appropriate funding, or oversee activity implementation, monitoring, and evaluation. Coordinating organizations may include local, county, or regional agencies that are capable of or responsible for implementing activities and programs.
- **Timeline.** Action items include both short and long-term activities. Each action item includes an estimate of the timeline for implementation.
- **Funding Sources.** Local funding or federal or state grants.
- **Priority.** The Mitigation Action Items and Strategies have been assigned a priority based on the STAPLEE analysis and summarized in a Five Year Matrix at the end of this section.

Participants Five Year Update

Participant	Worksheets/ Mitigation Action Items	Meetings	Email	Formal plan adoption	Meetings with MTRCOG staff
Audrain County	Yes	Yes	Yes	Yes	Yes
Mexico	Yes	Yes	Yes	Yes	Yes
Vandalia	Yes	Yes	Yes	Yes	Yes
Ladsonia	Yes	Yes	Yes	Yes	Yes
Farber	Yes	Yes	Yes	Yes	Yes
Martinsburg	Yes	Yes	Yes	Yes	Yes
Benton City	Yes	Yes	Yes	Yes	Yes
Mexico 59 SD	Yes	Via Phone	Yes	Yes	Via e-mail
Van Far R-I SD	Yes	Yes	Yes	Yes	Yes
Community R-VI SD	Yes	Yes	Yes	Yes	Via e-mail
Rush Hill	No	No	No	No	No
Vandiver	No	No	No	No	No

Meetings with the Hazard Mitigation Committees served as the method to obtain input and identify priorities in developing goals for reducing risk and preventing loss from natural hazards in Audrain County. Articles in the local papers informed the public that hazard mitigation planning was occurring in their communities and they were invited to let their concerns be known. The Hazard Mitigation

Committees met to determine action items that would address each of the plans goals, determine which organizations or groups within the county would be responsible for the action, an estimated timeline for the action, and to prioritize the action items.

In accordance with Missouri's "sunshine law" (RSMo 610.010, 610.020, 610.023, and 610.024), the public was notified each time the Hazard Mitigation Committees met and the plan, or sections of the plan, was presented for review. Input from the general public was solicited through media outlets and various reminders at public gatherings. Prior to the first meeting with each jurisdiction, an e-mail and an attachment describing the process was sent to commissioner, mayor, chairman of the board or school superintendent. A request was made in that e-mail that a Hazard Mitigation Committee be set up for that jurisdiction, along with a committee chairman who would **send out notices to stakeholders and adjacent communities of all upcoming Hazard Mitigation meetings**. A copy of the e-mail and attachment, "The Process", can be found in Section 6

The planning committee was composed of members drawn from local entities, city and county representatives as well as citizens from each jurisdiction. Representatives worked to provide information about their jurisdictions through worksheets and meeting attendance which was utilized in the plan update. Input from the general public was also solicited prior to each meeting by the committee chairperson. Every effort was made by the Hazard Mitigation committees to include more individuals in the Five Year review and updating process. Meeting sign-in sheets can be found in Section 6. The names of committee members and the jurisdictions represented in the planning process are on the following pages.

In addition, the Hazard Mitigation Committees for the cities of Mexico, Vandalia, Laddonia, Martinsburg, Farber, Benton City ,Mexico 59 School District and Van-Far R-I School District, and Community R-VI School District determined mitigation items specific to their communities.

Audrain County---Hazard Mitigation Committees- Five Year Update

Participants and jurisdictions represented.

Audrain County

Steven Shaw	Emergency Management Director
Janice Pritchett	Director of Disaster Preparedness
Kenneth Hoover	Fire Chief
Tom Groves	Western County Commissioner
Susan Rockett	Public Safety Chief
Barry Knipfel	Commander MPSD
Raymond Laird	Police Chief
Cynthia Woolridge	LEPC
Melissa Maupin	County Assessor
Steve Tanner	Disaster Relief Captain
Kevin Payne	Chief Audrain Ambulance District
Penny Smith	Sgt. MPSD
Chris Hardin	911 Director
Dan Barnett	911 Asst. Director
Randy Senor	Environmental Public Health Specialist
Karen Shaw	City Clerk, Vandalia
Mike Fuller	General Mgr. Consolidated Electric Coop.
Carl Aulbur	Operations Supt.
Jacob Shellabarger	Attorney

School Districts

Cheryl Mack	Community R-VI School District Superintendent
Dale Marshall	Community R-VI School District Safety Coordinator
Natalie Gibson	Community R-VI School District Elementary Principal
Kevin Freeman	Mexico 59 School District Superintendent
Steve Hunter	Van-Far R-I School District Superintendent
Ryan Morris	Van-Far R-I School District Maintenance Supervisor
Cindy Perch	Van-Far R-I School District Principal
Tony Lower	Van-Far R-I School District Technology Supervisor
Amber Crane	Van-Far R-I School District

Mexico

Susan Rockett	Public Safety Chief
Janice Pritchett	Director of Disaster Preparedness
Barry Knipfel	Commander MPD
Russell Runge	Asst. City Manager
Brice Mesko	Major
Ronald Loesch	Mayor
Rita Jackson	Community Development Director
Marcy LeCount	City Clerk
Penny Smith	Resource Officer
Kensey Russell	Director Public Works
Randy Senor	EPHS
Kevin Lowrance	Admin. Audrain County Health Department
Debbie Wilson	Admin. Assist.

Vandalia

Alan Winders	City Administrator
Karen Shaw	City Clerk
Tony Laird	EMD, Chief of Police
Tom Dunn	Deputy Warden, WERDCC
Michael Davis	Lt. Fire Dept.
Steve Hunter	Van-Far SD
John Gibbs	Chief of Custody, WERDCC
Charles Scroggin	Firefighter
David Hamby	Street Superintendent

Laddonia

Charlie Heim	Mayor
Barb Cope	City Clerk
Casey Smith	POET Ethanol Plant
Jerry Johnson	Fire Dept.
Wayne Todd	Fire Dept.
Bob Cope	Fire Dept.

Farber

John Hodde	Mayor
Heather Williams	EMD
Steve Shade	Councilman
Gary Stubblefield	Councilman
Jennifer Williams	Fire Dept,
Billy Joe Heaston	Fire Dept.
Ruth Williams	Community Betterment
Brandi Gay	Community Betterment
Harold Williams	Fire Dept., Lions Club

Martinsburg

Pat Arens	Mayor
Carl Aulbur	Alderman
Bob Cope	Alderman
Bill Dubbert	Alderman
Ed Lewollen	Alderman
Marilyn Eikel	City Clerk
Roger Cope	Fire Chief
Bill Schafer	Fire Dept. Volunteer
Albright Wright	Fire Dept. Volunteer
J Carline	Fire Dept. Volunteer

Benton City

Terry Davenport	Chairman
Donna Talley	Village Clerk
Sue Nolan	Alderman

Economic Analysis of Mitigation Projects--Cost Benefit Review

Cost-Benefit Review – takes into account the monetary and non-monetary costs and benefits associated with each action. Conducting a benefit/cost review for a mitigation activity can assist communities in determining whether a project is worth undertaking now, in order to avoid disaster-related damages later. Determining the economic feasibility of mitigating natural hazards can provide decision makers with an understanding of the potential benefits and costs of an activity, as well as a basis upon which to compare alternative projects.

Utilizing the previous Natural Hazards Mitigation Plan, the Audrain County Hazard Mitigation Committee has a comprehensive list of possible hazards and ways to mitigate their impact. The benefit/cost is determined by considering the number of citizens served by the action, the long-term effects of said action, and a number of other factors.

The Cost-Benefit Review was a very important step in the prioritization of mitigation actions found in this plan. Each jurisdiction looked at each mitigation action they discussed and answered a few questions:

- How many people in various demographics could be affected by the Hazard that the action addresses?
- What is the extent or the degree that a natural hazard event could affect a particular area?
- How much property damage might occur and what will be the resulting monetary cost?
- How many properties or physical assets might have loss of use?
- How many people might lose their life?
- How many people might be injured?
- How can each action item be implemented?
- What are the possible sources of funding available for the implementation?

The information needed to answer these questions effectively can be found throughout the plan. This information assisted each jurisdiction in answering these questions.

Re-evaluation and Priority of 2006 Action items

All the Mitigation Action Items from the 2006 Plan are listed in this section. Each action item includes an estimate of the timeline for implementation. When developing mitigation strategy, the planning committee followed several guidelines for selection of action items. They looked for action items that were (STAPLEE):

- S** S Socially acceptable,
- T** T Technically feasible,
- A** A Administratively executable by local communities,
- P** P Politically acceptable,
- L** L Legally implemented by county,
- E** E Economically feasible and
- E** E Environmentally sound.

However, Five year Update changes to the action items are highlight in **Bold Type**. Each action item from the original 2006 Hazard Mitigation Plan was first updated with any changes, and then discussed if the action item was completed, or needs to be continued, or deleted. Also some new action items were added.

Each of the revised or new action items were then re-evaluated and ranked as High, Medium or Low priority. The methodology used for ranking is described below.

The mitigation action items are classified as ongoing or given a specified timeline. The plan covers actions planned for the next five (5) years. The Hazard Mitigation Committees will meet on a regular basis to monitor progress on the Mitigation Actions within their communities. This plan will be updated and re-evaluated again in five years.

Five-Year Action Plan Matrix

The Mitigation Plan contains a five-year action plan matrix, background on the purpose and methodology used to develop the mitigation plan, a profile of Audrain County, sections on the natural hazards that occur within the county, profiles of Mexico, Vandalia, Laddonia, Martinsburg, Farber, Benton City, Mexico 59 School District and Van-Far R-I School District, and Community R-VI School District hazard mitigation actions developed by each of the those incorporated cities.

The Audrain County Natural Hazards Mitigation Action Plan includes resources and information to assist county residents, public and private sector organizations, and others interested in participating in planning for natural hazards. The action items address multi-hazard issues, as well as activities for flood, tornadoes and storms, severe winter weather, earthquake, dam failure, heat and drought, levee failure, landslides, sinkholes, and wildfire hazards.

Significant Mitigation Progress since 2006

The most significant progress in Audrain County in mitigation actions since 2006 is the establishment of a full time Emergency Management Director for the county and an emergency manager in all the communities. Also the county has contracted Everbridge to contact all emergency personnel and all citizens in the event of a hazardous event. This contact is made via phone, cell phone, webpage and social media sites. In addition, warning sirens have been installed in every community and is test monthly.

Prioritization of Actions using STAPLEE and Benefit/Cost Reviews

After reviewing the Hazard Mitigation Plan for Howard County, Missouri, the committee adopted their approach to prioritization of the Mitigation Action items.

Members of the Hazard Mitigation Committee carried out a STAPLEE review and Benefit/Cost review on the mitigation action items. The following guidelines were used:

STAPLEE Review

The questions below were used as starting points for evaluating each action according to the STAPLEE criteria. Scoring:

- 2 = Definitely YES
- 1 = Maybe YES

- **Social:** Is the action socially acceptable to the community?
- **Technical:** Will the proposed strategy work? Will the action independently solve the problem?
- **Administrative:** Is there someone to coordinate and lead the effort?
- **Political:** Is the action politically acceptable? Is there public support both to implement and to maintain the project?
- **Legal:** Is there legal authority to implement the action?
- **Economic:** Will the action benefit the area economically? Does the cost seem reasonable for the size of the problem and the likely benefits?
- **Environmental:** Is the action consistent with local, state, and federal environmental laws and regulations? Will the project have a positive impact on the environment? Will historic structures be saved or protected?

Benefit/Cost Review

Cost

Points were subtracted according to the following cost scale (-5 points maximum = highest cost)

- (-1) = Minimal – little cost to the jurisdiction involved
- (-3) = Moderate – definite cost involved but could likely be worked into operating budget
- (-5) = Significant – cost above and beyond most operating budgets; would require extra appropriations to finance or to meet matching funds for a grant

Note: For the Benefit/Cost Review, the benefit and cost of actions which used the word “Encourage” were evaluated as if the action or strategy being encouraged was actually to be carried out.

Benefit

Two (2) points were added for each of the following avoided damages (8 points maximum = highest benefit)

- Injuries and/or casualties (I,C)
- Property damages (PD)
- Loss-of-function/displacement impacts (LF)
- Emergency management costs/community costs (EMCC)

Total Score

The scores for the STAPLEE Review and Benefit/Cost Review were added to determine a Total Score for each action.

Priority Scale

A sample matrix was filled out for the possible range of ratings an action might receive on both the STAPLEE and Benefit/Cost Review (see Appendix H). The possible ratings tested ranged between:

- A hypothetical action with half “YES” answers on STAPLEE (i.e. poor STAPLEE score) and Low Benefit/High Cost: Total Score = 9
- A hypothetical action with “All definitely “YES” on STAPLEE and High Benefit/Little Cost: Total Score = 20

An inspection of the possible scores within this range led to the development of the following Priority Scale based on the Total Score in the STAPLEE-Benefit/Cost Review process:

14-21 points = High Priority
9-13 points = Medium Priority
8 points and below = Low Priority

It should be noted all of the actions attained either High or Medium priority rating. Many of the actions are ongoing and already in place but remain high priorities in the work plans of the jurisdictions.

The STAPLEE Review, Benefit/Cost Review, and Final Priority for each of the mitigation actions are shown below.

Prioritization of Mitigation Actions		2= Definitely Yes 1= Maybe Yes 0 = N/A or NO													
Action #	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE TOTAL	Losses Avoided 2 pt. each	Benefit	Cost	B/C Total	TOTAL	PRIORITY
<p>Goal 1 Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.</p> <p>Objective 1 Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.</p>															
1.1.1	Have educational brochures on what to do during a natural disaster available to schools and citizens. Articles in newspapers, county website, Little Dixie Fire District website, social networks, Facebook, Twitter. Link all official website in the county	2	2	2	2	2	1	0	11	IC,PD, EMCC C	6	-1	5	16	H
1.1.2	Have informational brochures on retrofitting windows available to distribute to Schools, day cares, and nursing homes. Supply information to private schools and Amish store	2	2	2	1	2	1	0	11	IC,PD	4	-1	3	14	H
1.1.3	Hand out brochures on Earthquake resistant building practices with building permits. County does not have building codes	2	2	2	1	2	1	0	11	IC,PD	4	-1	3	14	H
	Distribute Design Construction Awareness Brochures with Building permits. DELETE, already covered by building codes														

Prioritization of Mitigation Actions		2= Definitely Yes 1= Maybe Yes 0 = N/A or NO													
Action #	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE TOTAL	Losses Avoided 2 pt. each	Benefit	Cost	B/C Total	TOTAL	PRIORITY
<p>Goal 1 Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.</p> <p>Objective 2 Publicize appropriate mitigation measures for future potential natural hazards.</p>															
1.2.1	Have educational brochures on what to do during extreme heat conditions and distribute to nursing homes, childcare centers, schools. Health Dept distributes information with training for care facilities.	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H
1.2.2	Encourage Drought resistant yard watering practices. City has ordinance regulating water usage. Encourage use of rain barrels.	2	2	2	2	2	2	2	14	IC,PD, EMCC	6	-1	5	19	H
1.2.3	Work with local cable TV company to post severe natural hazards announcements. Public announcements on local radio stations and newspapers, also websites, social networks	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H
1.2.4	Have educational brochures on what to do during a natural disaster available to the public at the police station, fire station, and city hall. Articles published in local newspaper, websites Also at courthouse, 911, and health dept	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H
1.2.5	Prepare and insert information on “ What to do During Natural Hazards” in the utility bills and at the library	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H
1.2.6	Post Information on location of after-the-event shelters, local radio stations that have storm warnings, “what to do during natural disasters” brochures Welcome Wagon has newcomer packet, Red Cross and EMD has list of “after the event” shelters.	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H

Prioritization of Mitigation Actions		2= Definitely Yes 1= Maybe Yes 0 = N/A or NO													
Action #	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE TOTAL	Losses Avoided 2 pt. each	Benefit	Cost	B/C Total	TOTAL	PRIORITY
<p>Goal 1 Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.</p> <p>Objective 3 Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.</p>															
1.3.1	Promote use of NOAA radios in businesses, private homes, and large gatherings. Newspaper articles, TV stories/ads, websites encourages purchase of NOAA radios	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H
1.3.2	Have speaker available to conduct programs on earthquake safety and severe weather safety. Human Service Council has speakers, SEMA has speakers on earthquakes	2	2	2	2	2	1	0	11	IC,PD	4	-1	3	14	H
1.3.3	Coordinate a plan to warn the Amish communities of severe weather alerts. Check with Sheriff Dept on plan to warn both Amish and Mennonite communities	2	2	2	2	2	1	0	11	IC,PD	4	-1	3	14	H
1.3.4	Publish information on numbers to call for current road conditions on the city webpage and city TV channel. Currently on county website, 911 website, and has links to MODOT website	2	2	2	2	2	1	0	11	IC,PD	4	-1	3	14	H
1.3.5	Educate public about location and times of emergency snow routes designated by city/ County. Currently on city and county websites, 911 website, and has links to MODOT website	2	2	2	2	2	1	0	11	IC,PD	4	-1	3	14	H
1.3.6	Provide informational materials to public on how to prevent basement flooding and problems from improper use of grease traps. Back-flow Program offered to all residents	2	2	2	2	2	1	1	12	IC,PD	4	-1	3	15	H
1.3.7	Educate public on Wildfire Dangers and publish City Burning Ordinances. Information is available on city website along with brochures at city hall	2	2	2	2	2	1	2	13	IC,PD	4	-1	3	16	H
1.3.8 NEW	Inform public that prior to any burning in county they are to notify 911 or Fire District. NEW	2	2	2	2	2	1	2	13	IC,PD	4	-1	3	16	H

Prioritization of Mitigation Actions		2= Definitely Yes 1= Maybe Yes 0 = N/A or NO													
Action #	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE TOTAL	Losses Avoided 2 pt. each	Benefit	Cost	B/C Total	TOTAL	PRIORITY
Goal 2 Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.															
Objective 1 Build and support local partnerships to lessen the effects of natural hazards.															
2.1.1	Remove trees from power line easements in addition to current trimming program. Cooperate with Utility companies to trim trees in power line easements.	1	2	2	2	2	2	2	13	IC,PD, LF, EMCC	8	-1	7	20	H
2.1.2	Ensure that county school buses are outfitted with two –way communication Radios	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-3	3	15	H
2.1.3	Partnership with NECAC or local churches for distribution of fans as needed.	2	2	2	2	2	2	0	12	IC, EMCC	4	-1	3	15	H
2.1.4	Obtain sufficient back-up generators for designated shelters as funds become available. Change sufficient to additional	2	2	2	2	2	2	0	12	LF, EMCC	4	-3	1	13	M
2.1.5	Maintain Mutual Aid Agreements and update on regular schedule	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-1	7	21	H
2.1.6	Encourage schools to conduct programs on earthquake safety.	2	2	2	2	2	2	2	14	IC,PD, EMCC	6	-1	5	19	H
2.1.7	Promote NOAA radio use. Develop a program to offer low cost radios as funds become available. Red Cross has program	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H
2.1.8	Investigate possibility of obtaining back-up generator (s) for the Water Treatment and Waste Water Treatment Plants as funds become available.	2	2	2	2	2	2	0	12	LF, EMCC	4	-3	1	13	M

Prioritization of Mitigation Actions		2= Definitely Yes 1= Maybe Yes 0 = N/A or NO													
Action #	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE TOTAL	Losses Avoided 2 pt. each	Benefit	Cost	B/C Total	TOTAL	PRIORITY
Goal 2 Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards. Objective 1 Build and support local partnerships to lessen the effects of natural hazards.															
2.1.9	Maintain a list of special needs individuals and develop an emergency plan. Change Special to Functional	2	2	2	2	2	2	0	12	IC, EMCC	4	-1	3	15	H
2.1.10	Encourage tornado awareness drills in the local schools.	2	2	2	2	2	2	2	14	IC,PD, EMCC	6	-1	5	19	H
2.1.11 NEW	Develop and coordinate a centralized list and emergency plan of functional needs individuals with all the emergency agencies within county .NEW	2	2	2	2	2	2	0	12	IC, EMCC	4	-1	3	15	H

Prioritization of Mitigation Actions		2= Definitely Yes 1= Maybe Yes 0 = N/A or NO													
Action #	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE TOTAL	Losses Avoided 2 pt. each	Benefit	Cost	B/C Total	TOTAL	PRIORITY
Goal 2 Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.															
Objective 2 Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.															
2.2.1	Conduct regularly scheduled training for weather spotters	2	2	2	2	2	2	0	12	IC,PD	4	-1	3	15	H
2.2.2	Maintain a list of special needs individuals. Change special to functional	2	2	2	2	2	2	0	12	IC, EMCC	4	-1	3	15	H
2.2.3	Participate in regularly scheduled Table-top exercises and mock emergency exercises. Coordinate exercises under EMD 3-4 per year	2	2	2	2	2	2	1	13	IC,PD, LF, EMCC	8	-3	5	18	H
2.2.4	Investigate the possibility of obtaining a outdoor warning siren as funds become available. Add "outdoor" warning sirens. All cities and villages in county have a warning siren	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-5	3	15	H
2.2.5	Maintain and testing on regular schedule of the current warning siren system and upgrade as needed and funds become available. Tested 1st Tuesday through 911	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-3	5	17	H
2.2.6	Back-up plan for severe weather notification in event of malfunction of sirens, use fire trucks to warn citizens	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-3	5	17	H
2.2.7	Current warning system for severe weather is through P.A. announcements on Fire Dept. vehicles	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-3	5	17	H

Prioritization of Mitigation Actions		2= Definitely Yes 1= Maybe Yes 0 = N/A or NO													
Action #	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE TOTAL	Losses Avoided 2 pt. each	Benefit	Cost	B/C Total	TOTAL	PRIORITY
Goal 2 Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.															
Objective 3 Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.															
2.3.1	Maintain and clean culverts and storm water drainage system on a regular schedule.	2	2	2	2	2	2	2	14	IC,PD	4	-3	1	15	H
2.3.2	Encourage Drought resistant farming practices	2	2	2	2	2	2	2	14	PD	2	-1	1	15	H
2.3.3	Encourage Landowners to inspect and maintain their dams according to Dept. of Natural Resources standards. Include article in newspaper at least once a year.	2	2	2	2	2	2	2	14	LF, EMCC	4	-1	3	17	H
2.3.4	Promote City of Mexico Back-flow prevention program as funds become available.	2	2	2	2	2	2	2	14	PD	2	-1	1	15	H
2.3.5	Clean out sediment build-up in the stream bed of the south fork of the Salt River	2	1	1	2	2	2	2	14	IC,PD	4	-3	1	15	H
2.3.6	Plan for debris removal is in place and a designated location for debris is established.	2	2	2	2	2	2	2	14	IC,PD	4	-3	1	15	H
2.3.7	Engineering study currently in place for drainage patterns, upgrade as needed and funds become available. Laddonia completed a total replacement of sewer system in 2010	2	2	2	2	2	2	2	14	LF, EMCC	2	-5	-3	11	M
2.3.8	Monitor dams at city lakes. Review and conform to DNR regulation at the dams.	2	2	2	2	2	2	2	14	LF, EMCC	4	-1	3	17	H

Prioritization of Mitigation Actions		2= Definitely Yes 1= Maybe Yes 0 = N/A or NO													
Action #	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE TOTAL	Losses Avoided 2 pt. each	Benefit	Cost	B/C Total	TOTAL	PRIORITY
<p>Goal 3. Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.</p> <p>Objective 1 Incorporate mitigation procedures and planning into the community</p>															
3.1.1	Update Emergency Operating Plan on a regular schedule . Every three years. Coordinate with POET Ethanol plant in Laddonia and WERDCC (women's prison) in Vandalia	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-3	5	19	H
3.1.2	Establish cooling center at shelter	2	2	2	2	2	2	0	12	IC, EMCC	4	-3	1	13	M
3.1.3	Evaluate and upgrade as needed the current emergency response communication infrastructure. Updating radios to narrow band as required.	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-3	5	17	H
3.1.4	Maintain transportation infrastructure	2	2	2	2	2	2	2	14	IC,PD, EMCC	6	-5	1	15	H
3.1.5	Ensure that "Road Impassable" during high water signs are posted	2	2	2	2	2	2	1	13	LF, EMCC	4	-1	3	16	H
3.1.6	Maintain Road and Bridge Equipment. Add Street equipment	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-3	5	17	H
3.1.7	Maintain a supply of extra culverts and materials for repairs for emergency use.	2	2	2	2	2	2	2	14	IC,PD, EMCC	6	-3	3	17	H

Prioritization of Mitigation Actions		2= Definitely Yes 1= Maybe Yes 0 = N/A or NO													
Action #	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE TOTAL	Losses Avoided 2 pt. each	Benefit	Cost	B/C Total	TOTAL	PRIORITY
<p>Goal 1 Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.</p> <p>Objective 1 Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.</p>															
3.1.8	Update and maintain list of buildings that are designated as shelters, distribute list. Announcement to public on open shelters as needed.	2	2	2	2	2	2	0	12	LF, EMCC	4	-1	3	15	H
3.1.9 DONE	Investigate the construction of secure storage facility for all county records. COMPLETED--Off site	2	2	2	2	2	1	0	11	LF	2	-3	-1	10	L
3.1.10	Maintain snow plowing and removal equipment. Maintain adequate supply of salt during icy weather.	2	2	2	2	2	2	2	14	PD, LF, EMCC	6	-1	5	19	H
3.1.11	Obtain portable generator to maintain communication infrastructure as funds become available. EOC at 911, Back-up EOC is Sheriff's Dept. Need generator for repeater as funds become available.	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-5	3	15	H
3.1.12	Work with FEMA and Army Corp of Engineers to update Floodplain map as needed.	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-1	7	21	H
3.1.13	Maintain and replace missing street/ road signs	2	2	2	2	2	2	1	13	LF, EMCC	4	-1	3	16	H
3.1.14	Investigate possibility of obtaining back-up generator (s) for the Water Treatment and Waste Water Treatment Plants as funds become available.	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-5	3	15	H
3.1.15	Investigate possibility of obtaining outdoor warning sirens for all communities in Audrain County as funds become available. Covered – county-wide	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-5	3	15	H

Prioritization of Mitigation Actions		2= Definitely Yes 1= Maybe Yes 0 = N/A or NO													
Action #	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE TOTAL	Losses Avoided 2 pt. each	Benefit	Cost	B/C Total	TOTAL	PRIORITY
<p>Goal 1 Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.</p> <p>Objective 1 Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.</p>															
3.1.16	Provide shelter management training as funds become available.	2	2	2	2	2	2	0	12	PD	2	-1	1	13	M
3.1.17 DONE	Complete a needs assessment based on previous known natural disasters and known hazards. COMPLETED --incorporated in to EOP review	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-3	5	19	H
3.1.18 DONE	Investigate the possibility of drilling a secondary city well as funds become available. COMPLETED 2012	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-5	3	15	H
3.1.19	Consider possibility of developing an additional Public Safety Station on the south side of Mexico as funds become available.	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-5	3	15	H
3.1.20 DONE	Investigate an EAS (Early Alert System) incorporated into 911 as funds become available. NEW---DONE 2013	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-3	5	19	H

Prioritization of Mitigation Actions		2= Definitely Yes 1= Maybe Yes 0 = N/A or NO													
Action #	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE TOTAL	Losses Avoided 2 pt. each	Benefit	Cost	B/C Total	TOTAL	PRIORITY
<p>Goal 3. Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.</p> <p>Objective 2 Encourage private involvement in mitigation activities</p>															
3.2.1 NEW	Incorporate a saferoom/shelter in the new community center as funds become available. NEW	2	2	2	2	2	2	0	12	IC,LF EMCC	6	-5	1	13	M
3.2.2 NEW	When school campus expands incorporate a storm shelter as funds become available. NEW	2	2	2	2	2	2	0	12	IC,LF EMCC	6	-5	1	13	M

Prioritization of Mitigation Actions		2= Definitely Yes 1= Maybe Yes 0 = N/A or NO													
Action #	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE TOTAL	Losses Avoided 2 pt. each	Benefit	Cost	B/C Total	TOTAL	PRIORITY
<p>Goal 3. Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.</p> <p>Objective 3 Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.</p>															
3.3.1	In Audrain County only cities of Mexico, Vandalia, Laddonia and Rush Hill participate in the NFIP. Audrain County and the cities of Mexico, Vandalia, Laddonia and Rush Hill will continue to comply and implement the NFIP requirements and to reduce the flood risks associated with the Flood Hazard Areas	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-3	5	19	H
3.3.2	Burni Bans issued by Fire Depts. as needed	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-1	7	21	H
3.3.3	Enforce Floodplain Ordinance to ensure that no building is built in the floodplain zones.	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-1	7	21	H
3.3.4	Enforcement of current building codes, BOCA	2	2	2	2	2	2	0	12	PD	2	-1	1	13	M
3.3.5	Review of storm water drainage system and capital Improvement plan to upgrade water drainage as needed.	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-5	3	16	H
3.3.6	Enforce City Ordinance # 108-9, city facilities must meet earthquake-building standards.	2	2	2	2	2	2	0	12	PD	2	-1	1	13	M

Five Year Matrix

Goal 1 Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

Objective 1 Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Five Year Update Revision											
							Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-I SD		
1.1.1 H	Have educational brochures on what to do during a natural disaster available to schools and citizens	HMC, EMD, Health Dept, Fire Depts, govt offices	Ongoing	NA	R	LF	X	√	√	√	√	√	√	X	X	X	Articles in newspapers, county website, Little Dixie Fire District website, social networks, Facebook, Twitter. Link all official website in the county	
1.1.2 H	Have informational brochures on retrofitting windows available to distribute to Schools, Day Cares, and Nursing Homes.	HMC, EMD	6 mo-1yr	E	O	LF	X										Supply information to private schools and Amish store	
1.1.3 H	Hand out brochures on Earthquake resistant building practices with building permits	HMC	6 mo-1yr	N	O	LF			√			X					County does not have building codes	
	Distribute Design Construction Awareness Brochures with Building permits.	HMC, city government	Ongoing	N	O	LF											DELETE, already covered by building codes	

Priority from STAPLEE analysis * E—Existing N---New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
 EMD—Emergency Management Director EOC---Emergency Operations Center MODOT—Missouri Dept. of Trans √--Original Plan X—New in 5 year Update

Goal 1 Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

Objective 2 Publicize appropriate mitigation measures for future potential natural hazards.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O--Ongoing	Funding****	Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-I SD	Five Year Update Revision
							X										
1.2.1 H	Have educational brochures on what to do during extreme heat conditions and distribute to nursing homes, childcare centers, schools.	HMC, EMD, Health Dept, local media, nursing homes, child care, schools	Ongoing	NA	R	LF	X			√		√		X	X	X	Health Dept distributes information with training for care facilities.
1.2.2 H	Encourage Drought resistant yard watering practices. City has ordinance regulating water usage.	HMC, City Government	Ongoing	NA	O	LF		X	X			√	X				
1.2.3 H	Work with local cable TV company to post severe natural hazards announcements.	HMC, Fire Dept., Police Dept., Cable Companies	1 yr	NA	R	LF	X	X	X	√	√	√	√	X	X	X	Public announcements on local radio stations and newspapers, also websites, social networks
1.2.4 H	Have educational brochures on what to do during a natural disaster available to the public at the police station, fire station, and city hall. Articles published in local newspaper, websites	HMC, EMD, Fire Dept., media, websites	6 mo-1yr	NA	O	LF	X	√	X	√	X	√	√				Also at courthouse, 911, and health dept
1.2.5 H	Prepare and insert information on “What to do During Natural Hazards” in the utility bills and at the library	HMC, City Hall, Library	6 mo-1yr	NA	O	LF					√						
1.2.6 H	Post Information on location of after-the-event shelters, local radio stations that have storm warnings, “what to do during natural disasters” brochures.	www.audrain.org www.audrainsheriff.com radio stations, HMC, EMD	6 months-1 year	NA	R	LF	X				X	X	X				Welcome Wagon has newcomer packet, Red Cross and EMD has list of “after the Event” shelters

Priority from STAPLEE analysis * E—Existing N---New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
EMD—Emergency Management Director EOC---Emergency Operations Center MODOT—Missouri Dept. of Trans √--Original Plan X—New in 5 year Update

Goal 1 Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

Objective 3 Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O--Ongoing	Funding****	Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-I SD	Five Year Update Revision
							X	√	√	√	√	√	X	X	X	X	
1.3.1 H	Promote use of NOAA radios in businesses, private homes, and large gatherings	HMC	Ongoing	NA	O	LF	X	√	√	√	√	√	X	X	X	X	Newspaper articles, TV stories/ads, websites encourages purchase of NOAA radios
1.3.2 H	Have speaker available to conduct programs on earthquake safety and severe weather safety.	HMC	1-3 yrs	E N	O	LF	X					√		X	X	X	Human Service Council has speakers, SEMA has speakers on earthquakes
1.3.3 H	Coordinate a plan to warn the Amish communities of severe weather alerts.	HMC, EMD, sheriff Dept.	6 months-1 year	E N	O	LF	X										Check with Sheriff Dept on plan to warn both Amish and Mennonite communities
1.3.4 H	Publish information on numbers to call for current road conditions on the city webpage and city TV channel.	HMC, city webpage, City TV Channel	6 mo-1yr	NA	O	LF	X					X		X	X	X	Currently on county website, 911 website, and has links to MODOT website
	Develop "Tornado Preparedness Video for Mexico TV as funds become available.	HMC, Public Safety Dept.	1-2 yrs									√					DELETE
1.3.5 H	Educate public about location and times of emergency snow routes designated by city/ County	HMC, Public Safety Dept., Public Works Dept.	Ongoing	NA	O	LF	X					√					Currently on city and county websites, 911 website, and has links to MODOT website
	Develop Hazards of Flash Flooding video for Mexico TV as funds become available.	HMC, Public Safety Dept	1-2 yrs									√					DELETE

Priority from STAPLEE analysis * E—Existing N---New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
 EMD—Emergency Management Director EOC---Emergency Operations Center MODOT—Missouri Dept. of Trans √--Original Plan X—New in 5 year Update

Goal 1 Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

Objective 3 Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O--Ongoing	Funding****	Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-I SD	Five Year Update Revision
1.3.6 H	Provide informational materials to public on how to prevent basement flooding and problems from improper use of grease traps.	Public Works Dept., Wastewater Dept.	1-3 yrs Ongoing	E N	O	LF						√	X				Back-flow Program offered to all residents
1.3.7 H	Educate public on Wildfire Dangers and publish City Burning Ordinances	HMC, EMD, Public Safety Dept.	Ongoing	E	O	LF						√	X				Information is available on city website along with brochures at city hall
1.3.8 H NEW	Inform public that prior to any burning in county they are to notify 911 or Fire District	Newspaper, websites, radio, TV	Ongoing	E	N	LF	X										Added NEW

Priority from STAPLEE analysis * E—Existing N---New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
 EMD—Emergency Management Director EOC---Emergency Operations Center MODOT—Missouri Dept. of Trans √--Original Plan X—New in 5 year Update

Goal 2 Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

Objective 1 Build and support local partnerships to lessen the effects of natural hazards.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O--Ongoing	Funding****	Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-I SD	Five Year Update Revision
							X	√	√	√	√	X	√				
2.1.1 H	Remove trees from power line easements in addition to current trimming program	HMC, Utility Company	Ongoing	NA	O	F-S-G	X	√	√	√	√	X	√				Cooperate with Utility companies to trim trees in power line easements.
2.1.2 H	Ensure that county school buses are outfitted with two –way communication	HMC, Schools, Health Dept.	Ongoing	NA	O	F-S-G	X						√	X	X	X	Radios
2.1.3 H	Partnership with NECAC or local churches for distribution of fans as needed.	HMC, NECAC, Health Dept., churches	6 months Ongoing	NA	O	LF	X	√	√	X	X	√	X				
2.1.4 M	Obtain sufficient back-up generators for designated shelters as funds become available.	HMC, EMD	Ongoing 1-5 yrs	NA	O	LF	X	√	√	√		X	X	X			Change sufficient to additional
2.1.5 H	Maintain Mutual Aid Agreements and update on regular schedule	Law enforcement, Emergency OP EMD, Fire Dept. Utility Depts	Ongoing	NA	O	LF	X	√	√	√	√	√	√				
2.1.6 H	Encourage schools to conduct programs on earthquake safety.	HMC, EMD	Ongoing	NA	O	LF	X				√	√	X	X	X	X	
2.1.7 H	Promote NOAA radio use. Develop a program to offer low cost radios as funds become available.	HMC, Red Cross	1 year	NA	O	LF	X	X	X					X	X	X	Red Cross has program

Priority from STAPLEE analysis * E—Existing N---New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
 EMD—Emergency Management Director EOC---Emergency Operations Center MODOT—Missouri Dept. of Trans √--Original Plan X—New in 5 year Update

Goal 2 Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

Objective 1 Build and support local partnerships to lessen the effects of natural hazards.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O--Ongoing	Funding****	Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-I SD	Five Year Update Revision
2.1.8 M	Investigate possibility of obtaining back-up generator (s) for the Water Treatment and Waste Water Treatment Plants as funds become available.	HMC	2-5 yrs	NA	O	F-S-G LF					√	√	X				
2.1.9 H	Maintain a list of special needs individuals and develop an emergency plan.	HMC, Health Dept., EMD	1-2 yrs	NA	O	LF	X	X	√	X	X	X	X				Change Special to Functional
2.1.10 H	Encourage tornado awareness drills in the local schools.	HMC, schools	Ongoing	NA	O	LF					√	X	X	X	X	X	
2.1.11 H NEW	Develop and coordinate a centralized list and emergency plan of functional needs individuals with all the emergency agencies within county .	EMD, Red Cross, Health Dept, Highway Dept, Fire Districts, 911, Electric Utility Companies	1-2 yrs	NA	N	LF	X	X	X	X	X	X	X				NEW

Priority from STAPLEE analysis * E—Existing N---New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
 EMD—Emergency Management Director EOC---Emergency Operations Center MODOT—Missouri Dept. of Trans √--Original Plan X—New in 5 year Update

Goal 2 Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

Objective 2 Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-I SD	Five Year Update Revision
2.2.1 H	Conduct regularly scheduled training for weather spotters	HMC, EMD, NWS, Fire Depts.	Ongoing	NA	O	F-S-G LF	X		√	√	√	√	√				
2.2.2 H	Maintain a list of special needs individuals.	HMC, Highway and Bridge Dept., Health Dept.	Ongoing	NA	R	LF			√			√					Change special to functional
2.2.3 H	Participate in regularly scheduled Table-top exercises and mock emergency exercises.	Law enforcement, Emergency OP personnel, EMD, Fire Dept., Electric Utilities	Ongoing	NA	O	F-S-G LF	X	√	√	√		√	√				Coordinate exercises under EMD 3-4 per year
2.2.4 H	Investigate the possibility of obtaining outdoor warning siren as funds become available.	HMC, City Government	1-5 yrs	NA	R	F-S-G LF		√	X	X	√	X	X				Add “outdoor” warning sirens. All cities and villages in county have a warning siren
2.2.5 H	Maintain and testing on regular schedule of the current warning siren system and upgrade as needed and funds become available.	HMC, EMD, Fire Dept., 911	Ongoing	NA	O	F-S-G LF	X	X	√	√	X	√	√				Tested 1 st Tuesday through 911
2.2.6 H	Back-up plan for severe weather notification in event of malfunction of sirens, use fire trucks to warn citizens	HMC, Fire Dept.	Ongoing	NA	O	LF			√			X	X				
2.2.7 H	Current warning system for severe weather is through P.A. announcements on Fire Dept. vehicles	Fire Dept.	Ongoing	NA	O	LF					√						

Priority from STAPLEE analysis * E—Existing N—New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
 EMD—Emergency Management Director EOC—Emergency Operations Center MODOT—Missouri Dept. of Trans √—Original Plan X—New in 5 year Update

Goal 2 Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

Objective 3 Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-1 SD	Five Year Update Revision
							X	√	√	√	X	X	√				
2.3.1 H	Maintain and clean culverts and storm water drainage system on a regular schedule.	HMC, Highway & Bridge Dept, Street Dept.	Ongoing	E	O	LF	X	√	√	√	X	X	√				
2.3.2 H	Encourage Drought resistant farming practices	HMC, USDA, media, University Outreach	Ongoing	NA	LF	LF	X			√							
2.3.3 H	Encourage Landowners to inspect and maintain their dams according to Dept. of Natural Resources standards.	HMC, MO Dept. of Natural Resources, EMD	Ongoing	E	O	LF	X										Include article in newspaper at least once a year.
2.3.4 H	Promote Back-flow prevention program as funds become available.	HMC, Public Works Dept.	Ongoing	E	O	LF						√	X				
2.3.5 H	Clean out sediment build-up in the stream bed of the south fork of the Salt River	HMC, Street Dept.	Ongoing	E	O	LF			√								
2.3.6 H	Plan for debris removal is in place and a designated location for debris is established.	HMC, Street Dept., DNR	1-2 yrs	E	O	LF		√	X	X	√	√	X				
2.3.7 M	Engineering study currently in place for drainage patterns, upgrade as needed and funds become available	HMC, Utility Dept.	Ongoing	E N	O	F-S-G LF		√		X		√	X				Ladonia completed a total replacement of sewer system in 2010

Priority from STAPLEE analysis * E—Existing N---New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
 EMD—Emergency Management Director EOC---Emergency Operations Center MODOT—Missouri Dept. of Trans √--Original Plan X—New in 5 year Update

Goal 2 Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

Objective 3 Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-1 SD	Five Year Update Revision
2.3.8 H	Monitor dams at city lakes. Review and conform to DNR regulation at the dams.	HMC, Public Works Dept.	Ongoing	E	O	F-S-G LF						√					

Priority from STAPLEE analysis * E—Existing N—New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
 EMD—Emergency Management Director EOC—Emergency Operations Center MODOT—Missouri Dept. of Trans √—Original Plan X—New in 5 year Update

Goal 3. Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

Objective 1 Incorporate mitigation procedures and planning into the community.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O--Ongoing	Funding****	Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-I SD	Five Year Update Revision
							X	√	X	X	√	√	√	X	X	X	
3.1.1 H	Update Emergency Operations Plan on a regular schedule.	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing	NA	O	LF	X	√	X	X	√	√	√	X	X	X	Every three years. Coordinate with POET Ethanol plant in Ladonia and WERDCC (women's prison) in Vandalia
3.1.2 M	Establish cooling center at shelter	HMC, EMD	Ongoing	NA	O	LF		√	√	X	√		X				
3.1.3 H	Evaluate and upgrade as needed the current emergency response communication infrastructure	HMC, 911, Police, Fire, Sheriff, Ambulance	Ongoing	NA	O	LF	X	X	X	√	X	√	X	X	X	X	Updating radios to narrow band as required.
3.1.4 H	Maintain transportation infrastructure	Highway Dept. MODOT	Ongoing	NA	O	F-S-G LF	X		X	√	√	X	X				
3.1.5 H	Ensure that "Road Impassable" during high water signs are posted	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	X		X			X					
3.1.6 H	Maintain Street, Road and Bridge Equipment	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	X		X	X	X	X	X				Add Street equipment
3.1.7 H	Maintain a supply of extra culverts and materials for repairs for emergency use.	HMC, Highway and Bridge Dept.	Ongoing	NA	O	F-S-G LF	X		X	X	X	X	X				

Priority from STAPLEE analysis * E—Existing N---New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
 EMD—Emergency Management Director EOC---Emergency Operations Center MODOT—Missouri Dept. of Trans √--Original Plan X—New in 5 year Update

Goal 3. Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

Objective 1 Incorporate mitigation procedures and planning into the community.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O--Ongoing	Funding****	Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-I SD	Five Year Update Revision
							X	X	√	√	√	√	√				
3.1.8 H	Update and maintain list of buildings that are designated as shelters, distribute list	HMC, EMD, law enforcement, Red Cross, Health Dept.	Ongoing	NA	O	F-S-G LF	X	X	√	√	√	√	√				Announcement to public on open shelters as needed.
3.1.9 L	Investigate the construction of secure storage facility for all county records.	HMC	1-5 years	N			X										Completed---Off site
3.1.10 H	Maintain snow plowing and removal equipment. Maintain adequate supply of salt during icy weather.	Highway Dept. HMC, MODOT	Ongoing	NA	O	LF	X		√	√	√	√	√				
3.1.11 H	Obtain portable generator to maintain communication infrastructure as funds become available.	HMC, Police Dept., Fire Dept.	4-2 yrs Ongoing	NA	O	LF	X		X			X					EOC at 911, Back-up EOC is Sheriff's Dept. Need generator for repeater as funds become available.
3.1.12 H	Work with FEMA and Army Corp of Engineers to update Floodplain map as needed	HMC, City Government	1-5 yrs	NA	N	F-S-G LF	X			X		X	√				
3.1.13 H	Maintain and replace missing street/road signs	911 Street Dept, County Road crews	Ongoing	NA	O	LF	X		√	X	X	X	X				
3.1.14 H	Investigate possibility of obtaining back-up generator (s) for the Water Treatment and Waste Water Treatment Plants as funds become available.	HMC, MMU	2-5 yrs	NA	O	F-S-G LF					X		√				

Priority from STAPLEE analysis * E—Existing N--New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
EMD—Emergency Management Director EOC---Emergency Operations Center MODOT—Missouri Dept. of Trans √--Original Plan X—New in 5 year Update

Goal 3. Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

Objective 1 Incorporate mitigation procedures and planning into the community.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O--Ongoing	Funding****	Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-I SD	Five Year Update Revision
3.1.15 H	Investigate possibility of obtaining outdoor warning sirens for all communities in Audrain County as funds become available.	HMC, EMD	1- 5 years	NA	O	F-S-G LF	X										Covered-County-wide
3.1.16 M	Provide shelter management training as funds become available.	HMC, EMD, Red Cross	6 mo-1yr	NA	O	F-S-G LF	X					√					
3.1.17 H DONE	Complete a needs assessment based on previous known natural disasters and known hazards.	HMC, EMD	1-3 yrs	E N		F-S-G LF	X	X	X	X	X	X	X	X	X	X	Done --incorporated in to EOP review
3.1.18 H DONE	Investigate the possibility of drilling a secondary city well as funds become available.	HMC, DNR	3-5 yrs	NA	O	LF					√						Completed 2012
3.1.19 H	Consider possibility of developing an additional Public Safety Station on the south side of Mexico as funds become available.	HMC, EMC, Public Safety Dept.	1-5 years	N	O	F-S-G LF						√					
3.1.20 H DONE NEW	Investigate an EAS (Early Alert System) incorporated into 911 as funds become available	HMC, EMD, 911	1-2 years	NA	N	F-S-G LF	X										Done

Priority from STAPLEE analysis * E—Existing N---New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
EMD—Emergency Management Director EOC---Emergency Operations Center MODOT—Missouri Dept. of Trans √--Original Plan X—New in 5 year Update

Goal 3. Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

Objective 2 Encourage private involvement in mitigation activities.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O--Ongoing	Funding****	Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-I SD	Five Year Update Revision
3.2.1 M NEW	Incorporate a saferoom/shelter in the new community center as funds become available	HMC, city personnel	1-5 yrs	N	N	F-S-G LF							X				NEW
3.2.2 M NEW	When school campus expands incorporate a storm shelter as funds become available.	HMC, school	1-5 yrs	N	N	F-S-G LF										X	NEW

Priority from STAPLEE analysis * E—Existing N---New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
 EMD—Emergency Management Director EOC---Emergency Operations Center MODOT—Missouri Dept. of Trans √--Original Plan X—New in 5 year Update

Goal 3. Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

Objective 3 Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

Action Item # Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O--Ongoing	Funding****	Audrain County	Benton City	Farber	Ladonia	Martinsburg	Mexico	Vandalia	Community R-VI	Mexico 59 SD	Van-Far R-I SD	Five Year Update Revision
3.3.1 H	In Audrain County only cities of Mexico, Vandalia, Ladonia and Rush Hill participate in the NFIP. Audrain County and the cities of Mexico, Vandalia, Ladonia and Rush Hill will continue to comply and implement the NFIP requirements and to reduce the flood risks associated with the Flood Hazard Areas	HMC, Highway and Bridge Dept., Floodplain Managers	Ongoing	E N	O	F-S-G LF				√		√	√				
3.3.2 H	Burn Bans issued by Fire Depts. as needed	HMC, Fire Depts.	Ongoing	E	O	LF	X	√	√	√	√	√	√				
3.3.3 H	Enforce Floodplain Ordinance to ensure that no building is built in the floodplain zones.	HMC, floodplain Manager	Ongoing	E N	O	LF				√		√	√				
3.3.4 M	Enforcement of current building codes, BOCA	HMC, city government	Ongoing	E N	O	LF						√					
3.3.5 H	Review of storm water drainage system and capital Improvement plan to upgrade water drainage as needed.	HMC, city government, Wastewater Dept.	1-5 yrs	E N	O	F-S-G LF					√	X					
3.3.6 M	Enforce City Ordinance # 108-90, city facilities must meet earthquake-building standards.	HMC, City Council	Ongoing	E N	O	LF			√								

Priority from STAPLEE analysis * E—Existing N---New **** LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable HMC—Hazard Mitigation Committee
 EMD—Emergency Management Director EOC---Emergency Operations Center MODOT—Missouri Dept. of Trans √--Original Plan X—New in 5 year Update